95-RF-07988

CORRES. CONTROL OUTGOING LTR. NO. DOE ORDER # 95-RF-177988 DIST. LTRIENC BENSUSSEN, S. BUHL, T. CARD, R. G. COMPANY MANI, V. October 13, 1995 MARTINEZ, L MCKAY, B. O'BRIEN, G. ADMIN RECORD TUOR, N. Jessie M. Roberson, Assistant Manager VOORHEIS, G. **Environmental Restoration** WALLER, C. DOE, RFFO HEDAHL, T. G. COMMENT RESPONSES PROVIDED TO RESPOND TO THE COLORADO DEPARTMENT HILL, J. A. OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) COMMENTS DATED SHELTON, D. C. SEPTEMBER 1, 1995, REGARDING THE COPHE CONSERVATIVE RISK SCREEN FOR WHALEY, D. L. OPERABLE UNIT 3 (OU 3) - TGH-307-95 BOYD, R. H. Action: Request comments be transmitted to regulatory agencies. DETAMORE, J. A. DORR, K. A. The enclosed comment responses are provided to respond to CDPHE comments dated HAHN, S. J. September 1, 1995, regarding the CDPHE Conservative Risk Screen for OU 3. The KENNEDY, C. E. September 1, 1995, comments are for responses previously submitted on June 23, 1995. LAHOUD, R. G. POTTER, G. L. These comment responses should satisfy any concerns that the State may have regarding the application of the conservative screen for OU 3. It is expected that approval of the SIEBEN, A. K. STEINAUER, A. T. Conservative Screen for OU 3 will shortly follow your receipt of these comment responses. WIEMELT, K. L. Your immediate response is requested. Should you have any questions, please feel free to contact Stephen Hahn, of my staff, at extension 9888. 1 45 2/col T. G. Hedahl, Director ER/WM&I Operations CORRES. CTRL x X TRAFFIC SJH:kam ADMIN REC. PATS Orig. and 1 cc - J. M. Roberson CLASSIFICATION: Enclosure: UCNI DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE As Stated UNCLASSIFIED CONFIDENTIAL cc: (w/o Enclosure) SECRET

TAUTHORIZED CLASSIFIER SIGNATURE.

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Class Rev ubiver ser Class. Ofc. Date: 10-13-95

IN REPLY TO RECC NO:

ACTION ITEM STATUS

PARTIAL/OPEN XCLOSED.

LTR APPROVALS:

ORIG & TYPIST INITIALS

Kaiser-Hill Company, L.L.C.

R. J. Denike - RMRS J. E. Law - "

Roberts -

A. M. Parker

T. H. Spence -

RMRS Records

ER Project Files (2)

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Mr. Martin Hestmark U. S. Environmental Protection Agency, Region VIII ATTN: Rocky Flats Project Manager, 8HWM-RI 999 18th Street, Suite 500, 8WM-C Denver, Colorado 80202-2405

Mr. Joe Schieffelin, Unit Leader Hazardous Waste Control Program Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, Colorado 80222-1530

Gentlemen:

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The enclosed comment responses are provided to respond to the Colorado Department of Public Health and Environment (CDPHE) comments dated September 1, 1995, regarding the CDPHE Conservative Risk Screen for Operable Unit (OU) 3. The September 1, 1995, comments are for responses previously submitted on June 23, 1995.

These comment responses should satisfy any concerns regarding the application of the conservative screen for OU 3. It is expected that approval of the Conservative Screen for OU 3 will shortly follow your receipt of these comment responses.

Should you have any questions	please feel free to call	i a	ıt
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Introduction

These detailed responses are provided for the purpose of addressing formal comments from the Colorado Department of Public Health and Environment (CDPHE) regarding the comment responses on the CDPHE Conservative Screen Letter Report for OU 3. CDPHE comments are presented by comment number. U.S. Department of Energy (DOE) responses immediately follow the CDPHE comment.

CDPHE Comment #1

Page 11, step 2, spatial analysis section; No explanation was provided as to how the seven metals were spatially analyzed, similar to what was done in step 1. Please provide an explanation as to how each spatial analysis map was interpreted and justification as to why metals were eliminated as PCOCs. This is a particular concern for copper.

DOE Response to Comment #1

For each metal, concentrations in the sediment were first compared with the stream sediment UTL, the surficial soils UTL and the surface seep UTL. Then a comparison was made between the metal concentrations in the reservoir and those found across OU 3 and across the Rocky Flats Environmental Technology Site (RFETS). If all metal concentrations were below the UTLs and were indicative of OU 3 and RFETS concentrations, the metal was dropped from further consideration. If an exceedance of the highest UTL was seen, a spatial analysis was performed. If the spatial analysis shows that the UTL exceedance cannot be attributed to RFETS and is not indicative of adjacent concentrations of metals, the metal was dropped from further consideration. Also, the fact that Standley Lake receives about 90% of its water from the Central City/Clear Creek mining district means that elevated concentrations of metals in Standley Lake are probably not attributable to RFETS. Chemical concentrations in Mower Reservoir may have a more direct relationship to RFETS because it receives 100% of its water from RFETS.

Copper was examined with respect to the above methodology. Copper was carried to step 2 in the analysis because it could not be eliminated as a PCOC for Standley Lake. Copper was eliminated as a PCOC for Mower Reservoir. For copper, there were 4 detections of copper above the UTL for surface seeps out of 28 sample taken in Standley Lake. Since (1) Standley lake receives 90% of its water from another source than Rocky Flats, (2) the detection frequency for copper above the UTL is low, (3) the location of the detections for copper above the UTL were close to where Clear Creek enters Standley Lake and (4) that copper is not elevated in Mower Reservoir which receives all of its water from Rocky Flats, copper was not considered in the CDPHE conservative screen.

CDPHE Comment #2

Iron must be taken through to step 2 for Standley Lake. Although close in value, the subsurface mean is definitely higher than the background. Iron should be screened in a manner consistent with the other metals with values close to background, like selenium in Mower Reservoir. Therefore, a spatial map should be provided and interpreted for iron in Standley Lake.

DOE Response to Comment #2

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It is not believed that iron should be carried through to the CDPHE conservative screen for four reasons. First, the maximum concentration of iron in the subsurface is equal to the background maximum concentration. This means that there are no detections of iron above the background range in Standley Lake. Second, iron is not elevated in Mower Reservoir. This would indicate that elevated iron concentrations in Standley Lake are not attributable to Rocky Flats. Next, spatial analysis of the enclosed iron distribution map illustrates that there are no trends that would indicate that RFETS is a source for iron contamination. Lastly, iron is an essential nutrient and has no toxicity factor associated with it. Therefore, the CDPHE screen would not be applicable to iron.

